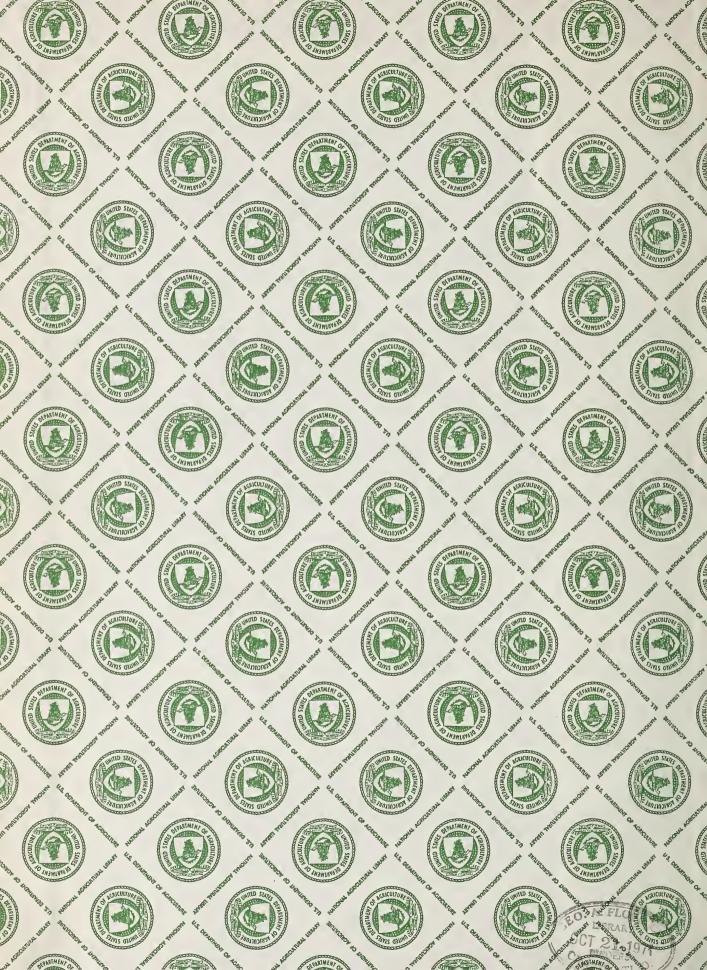
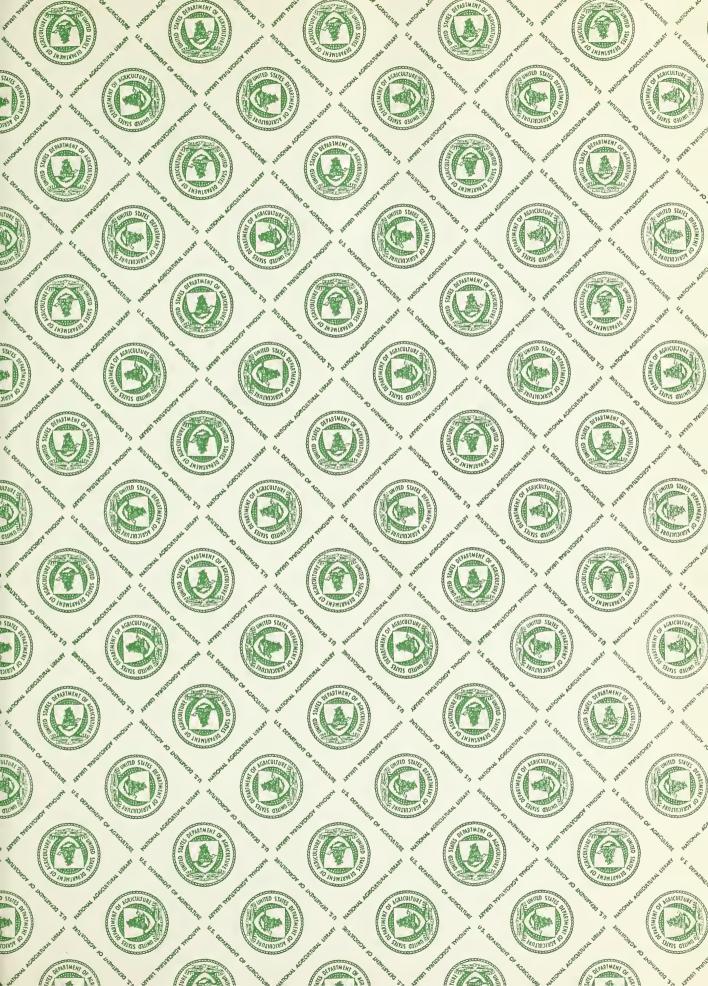
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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

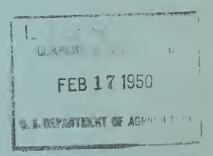
for

Colorado River Drainage Basin

By

Division of Irrigation, Soil Conservation Service
United States Department of Agriculture
and
Colorado Agricultural Experiment Station

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, National Park Service, State Engineers of Colorado, Wyoming and New Mexico and other Federal, State and local organizations.



FEB. 1, 1950

As of



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WATER SUPPLY OUTLOOK COLCRADO RIVER DRAINAGE February 1, 1950

Snow accumulation on the headwaters of the Colorado River in Wyoming, Colorado and New Mexico has been near average for the area up to February 1 but considerable less than for 1949. Several local variations exist from about 140 percent of normal at Wolf Creek Pass to a definite deficiency in the Red Mountain Pass area between Ouray and Silverton. There is about normal snow cover in valley areas and soil moisture conditions are reported as generally good.

Although the snow cover at high elevations in Arizona is not so favorable as a year ago the general outlook is better than for preceding years on account of the increased reservoir storage. Precipitation has been below normal but valley soil moisture conditions are reported as good. Stream flow is low.

COLORADO RIVER AND TRIBUȚARIES IN COLORADO

Colorado River (above Glenwood Springs): The snow cover on the Colorado River above Glenwood Springs is 91 percent of normal and only 62 percent of a year ago. A definite deficiency exists on Williams River courses while on the Upper main stem of the river the snow cover is slightly above normal. From limited reports the snow on the Grand Mesa is near average. Snow conditions on the Roaring Fork are about average, slightly better than for the Upper Colorado River. However it should be noted that about half of the snow on the watershed comes after February 1 in an average year and any estimate as to summer runoff must be subject to the snow to come and other factors. Storage in Green Mountain reservoir is now 113,600 acre-feet as compared to 72,000 last year. Streamflow is reported as about normal except at high elevations where it is less than normal. Valley snow cover is about average.

Gunnison River: The water supply outlook on the Gunnison is similar to the Upper Colorado. Snow cover on the North Fork and in other areas north of the river is well above average. Deficiencies exist along the Continental Divide from Marshall Pass on to the west with very little snow on the headwaters of the Uncompander River. Soil moisture conditions are reported as good. Stream flow on the Gunnison is well above average for this time of year. Storage in Taylor Park Reservoir is now 70,000 acre feet. A year ago the storage was 61,000 acre feet and the past ten year average is 64,000 acre feet.

Yampa and White Rivers: On the Yampa River the snow cover is above normal especially on the Elk and Snake river tributaries. On the headwaters of the White River, east of Meeker, the snow water content measured on two

Miscellaneous Series Paper No. 453, Colorado Agricultural Experiment Station

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courses is 75 percent of average. Streamflow is about normal and soil moisture conditions are described as good.

From limited snow surveys on the headwaters of the Green River the snow cover is well above normal for this date.

San Juen and Animas Rivers: There is considerable variation in snow cover in the mountains forming the San Juan Basin, Along the Continental Divide the snow accumulation to date is considerably above normal hear Wolf Creek Pass and near normal at lower elevations. On the headwaters of the Animas River there appear to be local areas where very little snow has occurred during the season. Near Silverton and Red Mountain Pass the snow cover is very low while at Cascade Syphon it is slightly above normal. Stream flow is about average and soil moisture conditions are reported as fair to good. Storage in Vallecito Reservoir on the Pine River is now 49,000 acre feet as compared to 57,000 a year ago.

Dolores River: On the headwaters of the Dolores and San Miguel rivers the snow cover is slightly above normal. Soil moisture conditions are reported as good but recent precipitation in the Cortez area has been deficient. Stream flow is below average.

COLORADO RIVER AND TRIBUTARIES IN ARIZONA

The water supply outlook is not too favorable at this time. Snow cover is substantially under last year and less than 50 percent of the past ten year average. Soil moisture conditions in the Salt River Valley are reported to be good. Stream flow in second-feet about February 1 is reported by the Salt River Valley Water Users Association as follows:

1950 - Salt: 230 Tonto: 49 Verde: 313 1949 - Salt: 353 Tonto: 325 Verde: 493

Storage in the four major Salt River reservoirs now totals 591,000 as compared to 308,000 a year ago. San Carlos reservoir had 363,000 acrefeet in storage on January 15.

Net storage in Lake Mead on February 1 was 18,961,000 acre feet, about one-half million less than for February 1, 1949.

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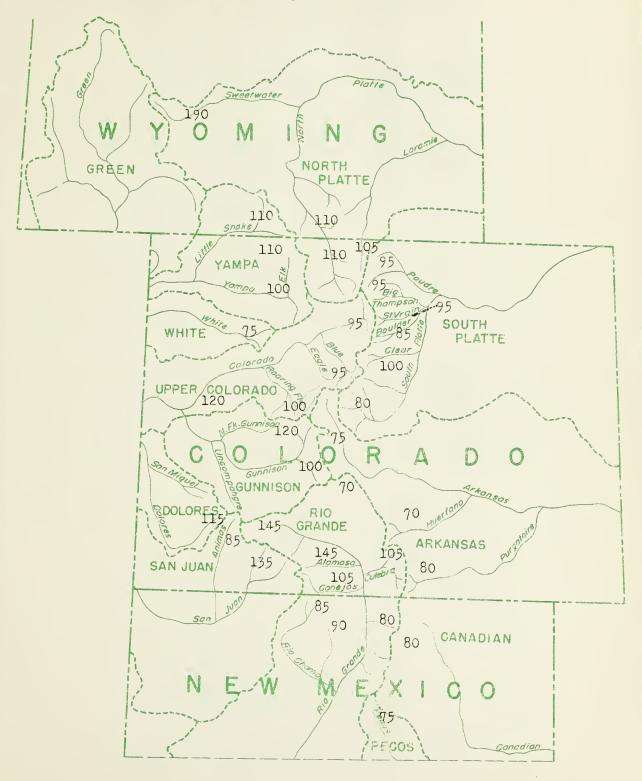
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WATER CONTENT OF SNOW ON THE WATERSHEDS OF PLATTE, ARKANSAS, UPPER GOLORADO AND RIO GRANDE BASINS BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal February 1, 1949





SNOW SURVEYS AND IRRIGATION WATER FORECASTS

COLORADO RIVER BASIN

STATUS OF RESERVOIR STORAGE, FEBRUARY 1, 1950

ASTIN AND STREAM	RESERVOIR	USABLE CAPACITY	THOUSAN	DS ACRE FER	T IN STORAG	THOUSANDS ACRE FEET IN STORAGE About February	oru <i>e</i> ry l
		(Thous.A.Ft.)	1950	1949	1948	1947	10-year Avg. 1939-48
	Andrew Complete Community of Complete Community of Complete Comple						
COLORADO DRAINAGE	Tavlor Park	105.2	70.2	61.6	91,0	66.5	64.0
Los Pinos River	Vallecito	126.3	10.7	57.5	72.0	57.3	1,2,0
Groundhog Creek	Groundhog	21,7	7.5	0,0	10.0	1	10.4
Blue River	Green Mountain	146.9	113.6	72.2	88.7	86.0	52.4
Colorado River	Lake wead	27935.0	18,961.0	19,489,0	19,866.0	17,207.0	20,254.0
Colorado River	Lake Havasu	688,0	595.4	592.0	598.3	626.6	535.2
		\.					
SALT AND GILA DRAINAGE		· Communication				,	
Salt River	Roosevelt	1420,0	370,6	223,5	41.2	159.4	0.961
= =	Horse Mesa	245.0	203,4	103.8	150.4	208.1	180,4
=	Mormon Flat	58.0	25.8	27.3	23,8	31.9	28,3
= =	Stewart Mt.	70.0	22,0	25.3	. 16.1	14.5	15.3
Verde River	Bartlett	200,0	34.7	76.5	3.7	31.1	36.8
Aqua Fria River	Carl Pleasant	173.0			0.8	2.9	15.5
Gila River	San Carlos	1200.0	entre supe	7777	0.0	17.0	205.9
	-		TOTAL SECTION				
*Some for shorter periods	•						

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SNOW SURVEYS AND IRRIGATION WATER FORECASTS for

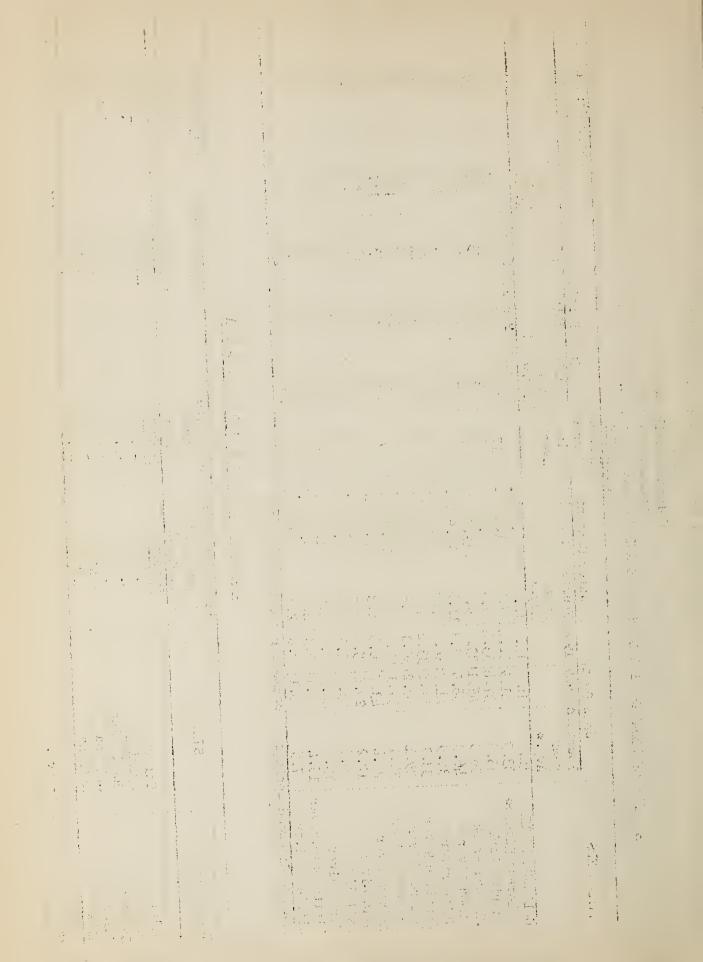
COLORADO RIVER BASIN February 1, 1950 SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

					Minnhon					- 1
	(-		TOOTIMAT				1950 Water Content	Content in
WATERSHEDS	Snow	Snow Depth		Water Content	Courses	- 100	Snow Density		perc	percent of
	Fourteen	Fourteen 1949 1950 Fc	Fourteen	1949 1950	ni O	Fourteen	1949	1950	Fourteen	1949
	year		year		hverage	year	o Allen		year	
	Avg. *		Avg.*			Avg. *			Avg.*	
COLORADO RIVER	In	Inc. In.	In.	In, In,		Percent	Percent	Percent		
Colorado River**	33.9	41.9 32.4	1 7.8	11.4 7.	1 17	23	27	22	91	62
Roaring Fork	33,2	37.4133.4	7.07	9.9 7.	8	23	56	23	101	79
Plateau Creek	38,3	15.1 33.8	2,3	12.9 9.	2	24	29	29	104	75
Yampa River	146.3	58.5 47.3	11.8	9 1	9	25	31	27	107	20.
White River	38,9	144.9134.9	9,8	12.9 7.	2	25	29	21	75	52
Gunnison River	33,1	142.8 33.2	7,7	10.5 7.	4 8	23	25	22	66	7
Dolores River	29,1	40.2 30.1	9.9	12.4 7.	7	23	31	25	117	1.09
San Juan River	35,1	57.1 44.0	8.8	15.2 10.	3 7	25	27	23.	117	689
Animas River	27.4	43.7 20.3	6,3	11.4 4,	m	23	26	27	68	38
Gila River	12.2	29.6 5.5	3,1	8,00	7 6	25	27	16	56	: =
Salt River	10.6	23.5 6.7	2,8	6.3 1.	7	26	27	. 21	2 2	2 2
Verde River	15.6	40.9 8.2	4,4	11.6 1,	8 6	28	28	22	[1]	91
Little Colo.River	15.4	34.1 9.3	7	9.5 2.	7	27	28	23	12	200
Williams River	7.5	28.1 0.8	2,2	8.1 0.	2 3	29	29	25	0	2
***Above Glenwood Springs	prings	*Some for sh	orter	periods.						

DATA TATION PRECIPI

WATERSHED	STATE	Precipitation*	Departure from	Precipitation*	Departure
		January 31	Normal	January	Normal
		Inches	Inches	Inches	Tuches
Colorado	Colorado	5.50	91.0-	2.05	÷0 57
Green	Wyoming	(5	00 0+	000	7
San Juan	New Mexico	000	/w/	77.1	
Colorado	Ari zo na	1,46	-0,95	0.03	20°C
Gila	Arizona	7,00	-1.57	0.00	0,81

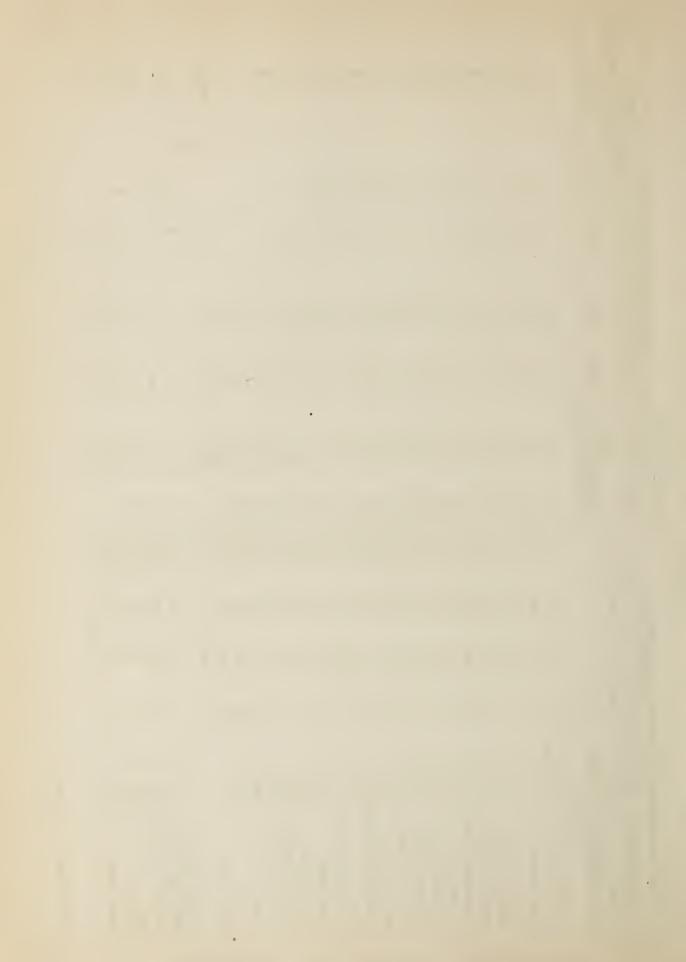
*Preciritution tentative.



COLORADO RIVER DRATUAGE SNOW SURVEYS

		-				0	,		- 1	- 1		
		Toc	Location					JC.	Show Cover	Measurements	ements	
Prainage Basin	No.			S. A. Transier		te	Snow	Water C	Content (Inches)	Past	Record
and	and	Sec	Twp.	Range	Elev, c		Depth				Jo	Av. Water Content
Snow Course	State				J.1	Survey	(Inches)	1950	1949	1948	Rec.	(Inches)
						COLORA	IDO RIVER					
COLORADO RIVER ((above Glen	Glenwood S	Springs	~			are a 6 from	• • •				
Cameron Pass*	1 Colo.		6N	76W	10300	9		12,3	16.5	13.5		11.7
Park Views	m 2	24	5N	784	9200	J-V		6.1	8.6	i	12	5.4
Fhantom Valley	12 "	2	SZ	75W	9300 1			5,4	10.2	7,2	77	, T.
Hoosier Pass	" '(L		SS SS	.ES/	111001	<u> </u>		, — Л	ω	2	-	, v
Berthoud Pass	11 91) 	25	757	9700	0 00		ν v	10,01	70,7	1/ -	\
Tennessee Pass	13 11	27	SS SS	300	10200	,		, (,,	, S	1.6	j _ =	\ œ
M. Fork Camp Gr.	37 "	16	38	77W	2 00006			300	6,9	;	13	o co
Fiddler Gulch	1, 1,1	r-I	88	8011	11000 2	/2		, w	12,0	1	13	ω, ω,
Willow Creek P.	62 "		NT TIN	7.8W	9500 1			8,4	12,4	1	10	7.4
N. Inlet Grand L	l " †79	26	N [†]	75W	10006			3/8	9.1	i	<u></u>	. K.
Lake Irene	65 "	00	SN	751	10600 1	1/29		10,7	19.3	1	11	12.6
Thunderbolt Peak		22	SN	17tm	9500 2	/2		11.6	18,1	1	11	10, 4
Arrow	n 69	34	18	75W	9900 1			4.2	7,5	1		5,2
Fremont Pass #2	19 =	2	88		11400 1		-4/2-	8,6	10,5	17.6	14	8,4
Lynx Pass	91 "	27	SN		9100			6,1	11,6	1	13	7.6
Shrine Pass	ıı 96	15	6 8	M67	105001			8,8	10.9	12,1	. &	7.6
Grizzly Peak	97 "	α	55		11250 1			9,8	13,0	10,3	∞	. 8 . 6
Glen-Mar Ranch	102."	31	25	77W	8850 2	1		2,9	7°5	1	2	6,8
n Lake	106 "	8	2N	74W	8500 2	/2		ω° 7	1			
Granby	112 "	11	2N	1 77W	8700 1	80		ر دور دور	6,4			
Grand Lake	127 "	36	Nt)	75W	1,0098	/30	26.0	3.9	8.7			c
			Average	ge for	drainag	96		7:1	11.07	9.5		7.8
ROARING FORK	-											
s Tun	O	30	113	82W		2/2	36.0	8.6	10,5	9.6	14	9.6
N.Lost Trail Cr.	34 "	50	113	87W	9200		1	1			13	
		г -	86			/31	24.0	3,0	У. 6	-	13	4.0
Φ,	# 00T	12	98		100400	72	1.07	16.7	13.7	9.0	7	p. 4
Woods Lake	131	(V	දුරු ද	31	110001		33.4	7,8	6.6	7.6		7.7
			Average	ior	drainage		45.0	9,2	10.5	9.6		
						-						

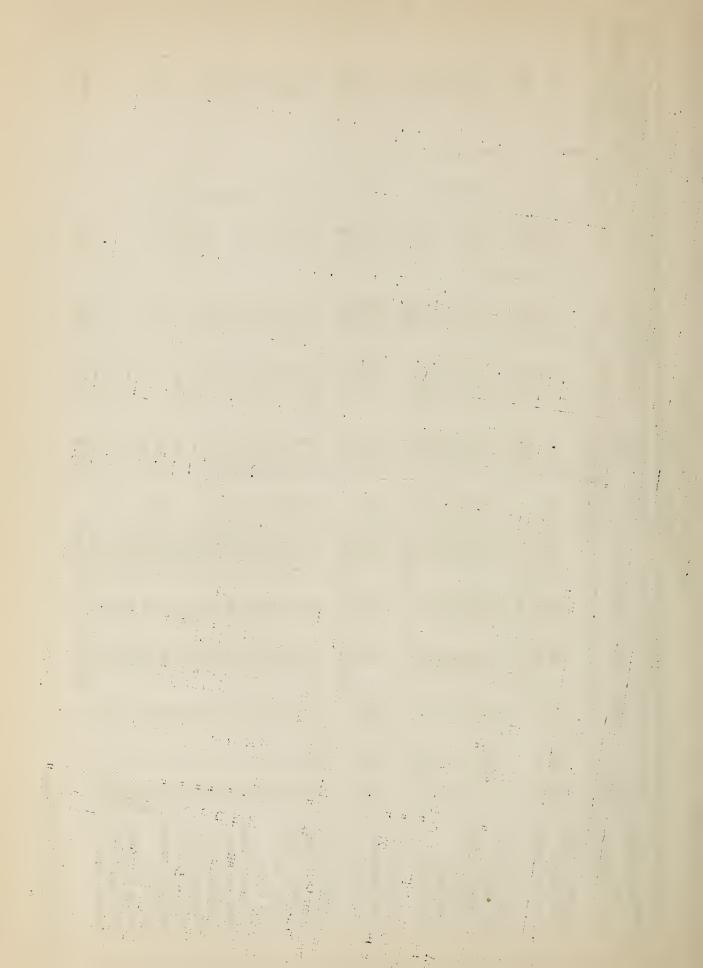
*On adjacent drainage



-6-COLORADO RIVER SNOW SURVEYS February 1, 1950

		Past Record	Mv. Water Content	(THOHES)		9.3 W.9		9.3		10.8	13.4	9.3	7.6	17.9	8-1-1	1	10.4	9.1	8.6		7.2	6,8	7.9	14.9	12,7	ν ω	7,3	-		8.9					7.5
	ements	Fas	Irs. of	70.00		13	10	1		6	17		13	12			14	10			14	14	14	14	13	12	13	101	0	2 -) I				
- 1	: Measurements	Inches)	8,01	1/40		10.0	15,0	10.0		!	15.8	8,0		17.7	177.1	 	10,1	!	101		5.7	ທິ	6.2	5.4	13,5		6,2	15.0	11,0	0.6					7.7
	Snow Cover	Content (0/01	/+//+		12.9		12.9		16.1	19.6	14,5	11.6	28.1	17.9		11.4	174.4	12 9		6.6	10.1	9.1	8,0	17,2	6,9	11,6	-	1	10.9	7,5		5.0		10.5
	ZZ	water (1050	4770		7.6	1	9.7		10,3	11.0	12.9	6.1	22.6	12.6		8.4	6,1	7.3		11.0	w N	9,0	6.2	15.7	9.6	5.6	!	1	7.0	. w	!	1,5	8	7.4
T 750		Snow	Depth (Inches)	DIVEND	חבי דח	33.8	.1	33,8		42.5	43.1	47.7	28.2	75.0	47.3		37.4	32,5	31.9		48.5	19.8	13.0	28.5	57.9	42,5	16.1	1	1	39,3	16,1	!	8.0	!	33.2
r connar		Date	Survey	OUT OUT		12/5	- minimum	· (b)		<u>)</u>	-1	1/2	٦		0		2000 2/1	1/31	Ф	•	3	7	1/28	2	न	2	1/30			1/30	2/2		2/1		
100			e Elev.		<u>-</u>	10000	10000	drainage	Total Average of	8200	9300	8700	9100	0086	drainag		0006	8500	drainage		0006	10800	10500	9700	10000	7500	9800	10000	9500	10800	10300	10900	10000	9500	drainage
	on		Range		-	M96	Mt16			81 _W	8214	8511	8314	8511			91W	88W	for		86W	Œ E	7E	82W	2511	89W	M/L	10 M	1076	6E	1	MM	33	89W	for
	Location		.Twp.			11.5	118	Average		ZN	2N	TON	2N	14N	Average)	25	N.C.	Average		138	748N	148N	14s	133	138	13N	113	113	N67	43M	42N	45N	11.5	Average
			Sec			35	53			56	21	9	27	59			75	28			22	27	13	179	2	177	53	23	34	19	13	~	12	~	
		No.	and State			56 Colo,	8 2 3			6 Colo,	= 8	11 6	91 "	9 Wyo.			35 Colo.	36 "			18 Colo.	75 "	13 "	# 9 [†]	53 "	55	58 ==	= 58	87 "	89	107 "	123 "	126 "	132 "	
		Drainage Basin	and Snow Course		PLATEAU CREEK	Mesa Lakes	Trickle Divide		YAMPA RIVER	Ury Lake	Columbine Lodge	Llk River	Lynx Pass	Cld Battle		WHITE RIVER	Surro Mountain	Tio Blanco		TUNNISON RIVER	Crested Butte	anshall Creek	Poncha Creek*	Park Cone	Alexander Lake	Snowshoe Mesa	Ironton Park	Trickle Divide	Park Reservoir	Porphyry Creek		Pass		Acciure Pass	

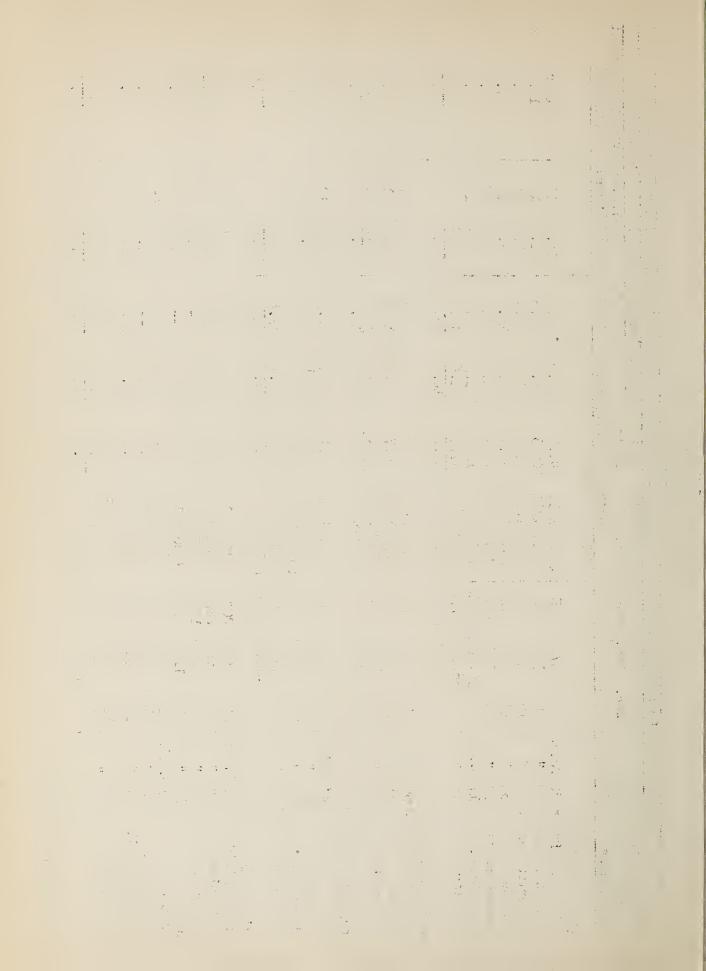
*On adjacent drainage



-7-COLORADO RIVER SNOW SURVEYS February 1, 1950

Meganinemente	Past Record	Av. Water Content	(Inches)		-	15.6	18.0	œ ٣	7.5	6.1	W-10	B C C C C C C C C C		3.8	7.5	7,3	6.3	-	5.7	7.9	9,3	7 4)	2.5	3.2	0.0	0.	2.7	3,7	0.7		1 1	3.1
College Me		Yrs. of	Record			10	10	H	1	∞	10			11	11	13			10	디	디	-		12	12	ω	-=	12	12	12	2	7	
Snow Go		And the same of th	1948			14.0	18,0	3,0	7.	, N	2,7	7.8		3,0	7,	5.6.2	2.6		4.2	3,9	9.6	7	`	2.1	7,7	0.0	0,-	0	7,2	1.7	0	0	9
	Water Content(1949			27,2	31.3	6,1	16.6	8,3	6.7	15.2		6,1	16,6	11,6	11.4		α, Λ	7.8	20,9	11.8 11.8	t L H	رب م	7.7	.	1	8,1	1	10.5	0	4,5	ت ش
	Water		1950			24.0	25.7	1,0	9.2	4.4	r 2	10.3		1,0	°6,2	2.6	4,3		ν, ν,	3,4	13,6	75-	<u>,</u>	7,3	٥,٦	0	0	6.0	5,3	0,7	0	2.6	٧.٥
	Snow		ا (Inches)	-		1.76	105.3	8,2	36.7	28 1	21,5	144.0		8.2	36.7	16,1	20,3		29.1	18,4	42,8	43.6	1	6.1	ر ر	0	. 0	4.9	9.0	0.9	0	7.1	v.v
133	Date	Elev. of	Survey	COLORADO RI			100001	9400 2/1	8850 1/31	7950 2/2	7750 2/2 8500 2/2	Irainage)	9400 2/1	8850 1/31	8700 1/30	drainage		8700 1/31	8600 1/31	102001/31	' 9/UU 1/31 drainage	0	8000 2/1	8000 2/1	7850 2/1	7800 7/1	8500 1/31	8000 2/1	8000 1/31	7300 1/31	8100 1/31	drainage
		Range				-	.,,	711	M6	6W	106.7W	for d		ML	N6	1112	for			S.		for	<u> </u>	20W	21W	TOW	10W	30周	30E	30E	16周	16年	TOL
tion		Two				37N	37N	L LIN	39 N	37N	36.9N 36.9N	Average		NTH	39 N	43N	Average	4 1	39N	42N		Average		68	689	108	113	en 6	- RH	NS.	125	125	ಕ್ಷಾರ್ಚಿಕ್ಷ
Location		Sec			-	7	01	10	12	21,				10	12	53			ロ`	0-	777	ɔ		77	9	20	9	23	<u>n</u>	56	<u>ب</u> ر رکر	9	
	No.	and	State	the sales of		26 0	29 u	<u>~</u>	37 "		17 N.Mex.			30 0	31 "	58	1.2		O	- 5th	22.	: 		11 N.Mex,	177 "	22 "	23 "	3 Ariz.	1, 1,	≃	= ;	=	
	Drainage Basin	and	Snow Course	; ; ;	UAN RI		Upper San Juan	Silverton Sub.S.	Cascade	Granite Peaks	Chama Divide* Chamita*		ANIMAS RIVER	Silverton Sub, S.		Ironton Park		MOLORES RIVER	Rico Fico	relluride	Lizard Head	TOWN DANG	GILA RIVER	Frisco Divide	State Line	Taylor Creek	Inman	Nutrioso	Beaver Head	Coronado Trail	Rose Canyon	bear wallow	

*On adjacent drainage



CCCLORADO RIVER SNOW SURVEYS
February 1, 1950

S	Past Record	1	tent, (Inches)			1.6	3.5	2.7	14,0	ر ا ا									2.8		1,6	س ر س ر	/ مر	٦ ، ١ ،	T * †7					4.2
easurements	Pag	Yrs. of	Rec.			6	H	12	12	6											6		7T	η (η					
92	nches)		1948			0 بر	0,0	1,0	1,7	. ⊟									0.8		0.5	ο, ι Σ (T,0	0.0	7.0					1.3
Snow Course	Content (Inches		1949			3.8	N N	8.1	10.5	, co									6.3		ω1 ω1	ν̈́ο ν̈́ι	, o	0.07	7 °0T					9,5
	Tater Co		1950			1,2	2,3	0.9	0.7	7.7	3,0	L . 1	9.17	, (-	\ \.\.	, w,	\ \ \)	7.7		1.2	7.0))) (ر بر د	7.7	0,0	٥ ـ ـ	1,0))))	2,1
	Snow	Depth	Inches)	RIVER		0,9	9,3	4.9	6,0	7.	15,3	20,2	22,3	15	20.3	33,7	72	1	5.7		6.0	ر ا ا	7 5 7	7,1) () (15.7	1 (; 4	20,3	22.8	9:3
(- 0	Date		Survey	COLORADO		2/1	2/1	1/31	1/31	2/1	2/1	2/1	2/1	1/31	1/31	1/31	1/31	1			2/1									
Complete and the comple	-	Elev.				0009	7200	8500	8000	7000	7600	7500	7600	8800	9050	0006	0006	7800			6000	0027	2250	7250	1000	1,000	7500	7600	7500	
cion		Range .				21E	23E	30E	30E	23正	15E	15E	1厘	28E	27F.	27E	27E		drainag		21E	7.7 E	ا ا ا	S C	3 E	エント	1 / L] E	· 图	drainage
Locati	Ì	Twp.				N6	8N	N9	2Z	SN	NTI	NTT	NII	5N	- N9	Z		-	for		N6	NIO	NO C	LON	12 L L	NTT	N L L	NT	18N	for
		Sec				۸ -	14	33	56	28	36	18	31	2	13	58	18	l	Average		~ -	14 23	ر ا د	- - - - - - - - - - - - - - - - - - -	77	0 0	2 00	31	177	Average
	No.	and	otate			⋖;	5 =	= M.	, t	بر =	= 9	: 8	1 6	10 11	11 #	12 "	13 11	17		4 I V ER.	l Ariz.	± ±) =	= v t	: :	. = - α	: =	10 "	17	
	Drainage Basin	and	Snow Course	SALT RIVER	יייי דוניים	Forest Dale	Michary	Natrioso	Coronado Trail	Milk Ranch	Gentry	Canyon Creek	Elk	Eig Lake Knoll	laverick Fork		Fort Apache	Pacheta		LITTLE COLORADO RIVER	Forest Dalex	Nutriosox	Mormon Lake	Fort Valley	Gentari	Heher	Canyon Creek	BIK,	Mormon Mt.	

*On adjacent drainage

Georgia de Maria the Committee of the co ALPROMENCE PR 15 12 13 15 17 17 28 17 Jan Harry Carlot March 1990 1990 楽の記され

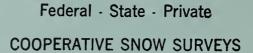
COLORADO RIVER SNOW SURVEYS February 1, 1950

Measuremen ts	Past Kecord	Yrs. of Av. Water Content Record (Inches)			c	7.0) i	110		1,9	+				7:7	-		2.4		20.0	2.2		α) «) -	6.4	5.7	-
1		Yrs. of			ند	<u>-</u> t	m t	, m	, m	, m									7	· ~			C	1 (۰.	, M		
Snow Course	(Inches)	1918	21/1		C) C	0		0.3						L'I			0	0	0	0		ν V	000	6,3	2.6	3.7	
Sno	Content(Inches	67/61			9	, «	10,4	20.0	10,2	10,8					11.6			9.6	8.6	6.0	8.7		72.7	8,7	10,2	10,8	10.5	-
	Water	1950			C	0,7	0,1,	3,0	2.2	3.1		ν, v	0,00	7,	1,8			0	0.7	0	0.5		7.7	7,4	2.2	3,1	3.6	
	Snow	Depth (Inches)		RIVER	C	°,3	, w	17.2	9,3	12,1	15,2	18,8	21.1	22.8	8.2			0	2.3	0	0.8		38.11	11,0	ر ش م	12,1	17.7	
	Date	of Survey		COLORADO R	1/6	2/1	1/31	2/1	2/1	2/1	2/2	2/2	2/2	2/2	ige ige	dinami tanishina		2,7	2/1	2/1	9 60		2/1	2/1	2/1		Φ	
		Elev.		ິວ	6200	5700	7100	7350	7350	7100	6500	6930	7300	7500	drainag		,	6200	5700	5000	drainage		8400	7500	7350	0017	drainag	
on	1	Range			36	6	2E	뜅	EB -	3E	7E	图	图8	- 8E	age for			A -	- 6W		ge for		当	当	(E	Œ	for	
Location	(·dwl,			N.(L	16N	15N	18N	22N	22N	1.8N	18N	19N	18N	Average		1	14N	16N	SIN	Average		33N	30N	22N	22N	Average	
,		vec.			22	m	Μ	2	22	27	<u>~</u>	13	59	177	4		(7.7	<u></u>	16			34	27	22	27		
	, on	and State			1 Ariz,	2 "	3 ==	. 7	<u>ア</u> ひ.	1 9	<u>=</u> &	= 6	10 "	17 "				L Arlz.	2 "	= ~	_	RIVER	1 Ariz,	2 н	= \(\chi_1	= 9		_
1	Drainage Basin	and Snow Course		מיוודם שתמשוו	Tron Springs*	Camp Wood	Mingus Mountain	Mormon Lake	Fort Valley*	Chal ender*	Munds Park	Casner Fark	Antelope Park	Mormon Mt.		WILLIAMS RIVER		Iron Springs	Camp Woods	Willow Ranch		LOWER COLCRADO R.	1	Grand Canyon	Fort Valley	Chalender		

*On adjacent drainage

. : , 30 Str. 13 Str





Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"